

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions and listings of claims in the application:

1. **(Currently Amended)** A computer program product located to one or more storage media devices usable to perform integration of mixed format data, said computer program product comprising instructions executable by a computer to perform the functions of:

accessing a database of data records, at least some of the data records containing both structured data and unstructured data, the unstructured data of a particular data record including free text related to the structured data of that data record.

using linguistic characteristics of the free text to extract relational facts from the free text, wherein the linguistic characteristics including at least syntactic roles; it;

producing a set of construed data reflecting at least one relational fact conveyed in the free text;

relating each construed datum ~~being~~ relatable to the structured data of the same data record;

~~producing a set of construed data reflecting at least one relational fact conveyed in the free text, each construed datum being relatable to the structured data of the same data record;~~

integrating the construed data with the particular structured data; and
rendering at least one visual representation of the integrated data.

2. **(Currently Amended)** ~~[[A]]~~ The computer program product according to claim 1, wherein said extracting step uses caseframes.

3. **(Cancelled)**

4. **(Cancelled)**

5. **(Currently Amended)** [[A]] The computer program product according to claim 1, wherein said instructions are further executable to perform the function of producing a new database containing the integrated data produced by said integrating.

6. **(Currently Amended)** [[A]] The computer program product according to claim 1, wherein said instructions are further executable to perform the function of inserting the produced data into the database of structured data while performing said integrating the produced data.

7. **(Currently Amended)** [[A]] The computer program product according to claim 1, wherein said instructions are further executable to perform the function of creating a new database while performing said integrating the produced data.

8. **(Currently Amended)** [[A]] The computer program product according to claim 7, wherein the instructions are further executable to produce a new relational database containing the integrated data produced by said integrating.

9. **(Currently Amended)** [[A]] The computer program product according to claim 7, wherein the instructions are further executable to produce a file containing the integrated data produced by said integrating.

10. **(Currently Amended)** [[A]] The computer program product according to claim 9, wherein the instructions are further executable to produce a file having a format selected from the group of XML, character separated values, spreadsheet formats and file-based database structures.

11. **(Currently Amended)** [[A]] The computer system including a computer program product according to claim 1, further comprising:

a processing unit coupled to said one or more storage media devices, said processing unit being capable of executing said instructions; and

an execution command unit, whereby operation of said instructions and said processing unit may be commanded or controlled.

12. **(Currently Amended)** [[A]] The computer program product according to claim 1, wherein said instructions are further executable to combine similar attributes for the extracted relational facts produced in performing said extracting relational facts from the free text.

13. **(Currently Amended)** [[A]] The computer program product according to claim 1, wherein said instructions are further executable to combine similar relation types for the extracted relational facts produced in performing said extracting relational facts from the free text.

14. **(Currently Amended)** [[A]] The computer program product according to claim 1, wherein said instructions provide relational facts with domain roles applied in performing said extracting relational facts from the free text.

15. **(Currently Amended)** [[A]] The computer program product according to claim 1, wherein said instructions store the relational facts produced in performing said extracting relational facts from the free text.

16. **(Currently Amended)** [[A]] The computer program product according to claim 1, wherein the extracted relational facts produced in performing said extracting relational facts and the integrated data produced by the performance of said integrating the produced data includes reference information to the original free text.

17. **(Currently Amended)** A computer program product located to one or more storage media devices usable to perform integration of mixed format data, said computer program product comprising instructions executable by a computer to perform the functions of:

accessing a database of structured data, the structured data comprising a set of data tuples;

accessing a database of data records, at least some of the data records containing both structured data and unstructured data, the unstructured data of a particular data record including free text related to the structured data of that data record;

using linguistic characteristics of the free text to extract relational facts from the free text, the linguistic characteristics including at least syntactic roles; it;

producing a set of construed data reflecting at least one relational fact conveyed in the free text, each construed datum being relatable to the structured data of the same data record;

integrating the construed data with the particular structured data; and
providing the integrated data to a data visualization application.

18. **(Cancelled)**

19. **(Cancelled)**

20. **(Currently Amended)** [[A]] The computer program product according to claim 17, wherein said instructions are further executable to perform the function of applying caseframes while performing said interpreting the free text.

21. **(Currently Amended)** [[A]] The computer program product according to claim 17, wherein said instructions are further executable to perform the function of producing a new database containing the integrated data produced by said integrating.

22. **(Currently Amended)** [[A]] The computer program product according to claim 17, wherein said instructions are further executable to perform the function of inserting the produced data into the database of structured data while performing said integrating the produced data.

23. **(Currently Amended)** [[A]] The computer program product according to claim 17, wherein said instructions are further executable to perform the function of creating a new database while performing said integrating the produced data.

24. **(Currently Amended)** [[A]] The computer program product according to claim 23, wherein the instructions are further executable to produce a new relational database containing the integrated data produced by said integrating.

25. **(Currently Amended)** [[A]] The computer program product according to claim 24, wherein the instructions are further executable to produce a file containing the integrated data produced by said integrating.

26. **(Currently Amended)** [[A]] The computer program product according to claim 25, wherein the instructions are further executable to produce a file having a format selected from the group of XML, character separated values, spreadsheet formats and file-based database structures.

27. **(Currently Amended)** [[A]] The computer system including a computer program product according to claim 17, further comprising:

a processing unit coupled to said one or more storage media devices, said processing unit being capable of executing said instructions; and

an execution command unit, whereby operation of said instructions and said processing unit may be commanded or controlled.

28. **(Currently Amended)** [[A]] The computer program product according to claim 17, wherein said instructions are further executable to combine like attributes for the extracted relational facts produced in performing said extracting relational facts from the free text.

29. **(Currently Amended)** [[A]] The computer program product according to claim 17, wherein said instructions are further executable to combine like relation types for the extracted relational facts produced in performing said extracting relational facts from the free text.

30. **(Currently Amended)** [[A]] The computer program product according to claim 17 wherein said instructions provide relational facts with domain roles applied in performing said extracting relational facts from the free text.

31. **(Currently Amended)** [[A]] The computer program product according to claim 17, wherein said instructions store the relational facts produced in performing said extracting relational facts from the free text.

32. **(Currently Amended)** [[A]] The computer program product according to claim 17, wherein the extracted relational facts produced in performing said extracting relational facts and the integrated data produced by the performance of said integrating the produced data includes reference information to the original free text.

33. **(Currently Amended)** A method for integrating mixed format data, comprising the steps of:

accessing a database of structured data, the structured data comprising a set of data tuples;

accessing a source of unstructured data, the unstructured data including free text relatable to the data tuples of the structured data;

accessing a source of data records, at least some of the data records containing both structured data and unstructured data, the unstructured data including free text relatable to the structured data of the data record from which the free text came;

using linguistic characteristics of the free text to extract relational facts from the free text, the linguistic characteristics including at least syntactic roles; it;

producing a set of construed data reflecting at least one relational fact conveyed in the free text, each construed datum containing at least one relational fact; [[.]]

relating each construed datum ~~being further relatable~~ to the structured data of the data record from which the free text came; ~~and~~

integrating the produced data with the structured data; and

rendering at least one visual representation of the integrated data.

34. **(Cancelled)**

35. **(Cancelled)**

36. **(Currently Amended)** [[A]] The method according to claim 33, wherein said performing said interpreting the free text applies caseframes.

37. **(Currently Amended)** [[A]] The method according to claim 33, further comprising the step of producing a new database containing the integrated data produced by said integrating.

38. **(Currently Amended)** [[A]] The method according to claim 33, further comprising the step of inserting the produced data into the database of structured data.

39. **(Currently Amended)** [[A]] The method according to claim 33, further comprising the step of creating a new database.

40. **(Currently Amended)** [[A]] The method according to claim 39, wherein the new database is a relational database.

41. **(Currently Amended)** [[A]] The method according to claim 40, wherein new database includes at least one file containing the integrated data produced by said integrating.

42. **(Currently Amended)** [[A]] The method according to claim 41, wherein the new database has a format selected from the group of XML, character separated values, spreadsheet formats and file-based database structures.

43. **(Currently Amended)** [[A]] The method according to claim 33, further comprising the step of combining like attributes for the extracted relational facts produced in performing said extracting relational facts from the free text.

44. **(Currently Amended)** [[A]] The method according to claim 33, further comprising the step of combining like relation types for the extracted relational facts produced in performing said extracting relational facts from the free text.

45. **(Currently Amended)** [[A]] The method according to claim 33, wherein domain roles are applied in said step of extracting relational facts from the free text.

46. **(Currently Amended)** [[A]] The method according to claim 33, further comprising the step of storing the relational facts produced in performing said extracting relational facts from the free text.

47. **(Currently Amended)** [[A]] The method according to claim 33, wherein the extracted relational facts produced in performing said extracting relational facts and the integrated data produced by the performance of said integrating the produced data includes reference information to the original free text.